African Telecommunications Union

REPORT

of the

2nd AFRICAN PREPARATORY MEETING FOR WORLD RADIOCOMMUNICATION CONFERENCE 2015 (2nd APM for WRC-15)

held from

27th to 30th January, 2014

at

Al Salam Rotana Hotel

in

Khartoum, Sudan

January, 2014

1. INTRODUCTION

The African Telecommunications Union (ATU) in collaboration with the National Telecommunications Corporation (NTC) of Sudan organized the 2nd African preparatory meeting in Khartoum from 27th to 30th January 2014 at the kind invitation of the Member State of Sudan to prepare for World Radiocommunication Conference (WRC-15) due to be held in Geneva, Switzerland from 2nd to 27th November 2015.

The objective of the meeting was to:

1. Recall the notables from the 1st African Preparatory meeting for WRC-15 held in Dakar-Senegal in March 2013 (1st APM for WRC-15);
2. Note relevant developments since 1st APM for WRC-15;
3. Note developments within ITU-R for WRC-15; report on the 1st ITU Inter-regional Workshop on WRC-15 preparations; report on the JTG 4-5-6-7 and other study groups;
4. Note views/positions from other regional telecommunications organizations regarding WRC-15 agenda items;
5. Consider the report from the AfriSWoG in order to note and/or adopt the outcomes of the group's 1st meeting (AfriSWoG-1);
6. Consideration of WRC-15 agenda items and development of preliminary views/positions, where possible;
7. Review of the ATU RA-15 and WRC-15 Strategy (Work plan and schedule of meetings); and
8. Capacity building on spectrum and new technologies in the area of mobile and satellite communications.

The meeting was attended by over 170 participants from 30 Member States and countries (Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroun, Comores, Cote d'Ivoire, Djibouti, Gabon, Gambia, Ghana, Guinea, Kenya, Lesotho, Liberia, Malawi, Mauritania, Niger, Nigeria, Rwanda, South Africa, South Sudan, Sudan, Tanzania, Tchad, Uganda, Zambia, Zimbabwe); ITU's Radiocommunications Bureau (BR), EACO, SADC; Three (03) International Regional Telecommunications Organizations (ASMG, CEPT and RCC); Eight (08) Associate Members (Access Partnership, Avanti Communications Group plc, The Boeing Company, Ericsson, GSMA, Intelsat, Qualcomm); Eight (08) Partner organizations and Other interested groups (RASCOM, ITSO, GVF, Commonwealth ITU Group (CIG), ESMT, Kemilinks, Motorola Solutions, IARU Sudan). The full list of participants is attached in **Annex 1**.

2. OPENING CEREMONY

The Director General of the National Telecommunications Corporation of Sudan, **Dr. Izzeldin KAMIL AMIN**, in his opening remarks:

- Extended a warm welcome to participants to the meeting and to Sudan in general;
- Expressed gratitude to ATU General Secretariat for letting Sudan host the meeting;
- Further expressed gratitude also to ITU for the support;
- Pointed Sudan's commitment to solidarity and unity for prudent Africa spectrum management in Africa;
- Indicated that Sudan is a bridge between Arab and African countries and such was happy to present some of the ASMG views on the issues; and
- Thanked everyone and wished the meeting success.

Mr. Ben BA presented opening remarks on behalf of Mr. François RANCY, Director of the Radiocommunications Bureau through which he:

- Briefed the meeting on the preparatory process for WRC-15 and the line-up of the major meetings and activities;
- Congratulated ATU for the success regarding the completion of the GE06 frequency coordination for Sub-Saharan Africa in relation with the BR; and
- Ended by thanking everyone and wishing the meeting success.

The Secretary General of the African Telecommunications Union, **Mr. Abdoulkarim SOUMAILA,** in his opening remarks:

- Welcomed all participants and dignitaries present;
- Thanked the Government of Sudan and the NTC for hosting the meeting;
- Wished everyone success in the year 2014;
- Expressed happiness at the high number of registered participants which he said indicated enhanced support and commitment to ATU activities in particular on WRCs and spectrum matters as well as ICT issues in general;
- Pointed out that the success scored at WRC-12 was due to the support, commitment and cooperation from the membership and partners;
- Stated that the issue of additional spectrum and other issues at WRC-15 need to be fully prepared for in order to achieve positive result at WRC-15;
- Outlined the ATU preparatory process and the holding of the 1st AfriSWoG meeting in November 2013 in Nairobi;
- Said that even when issues may be diverse and sometimes administrations have different positions, common views/positions usually emerge;
- Thanked the ITU-BR continued support as well as other regional telecommunications organizations who sent representatives namely; ASMG, CEPT and RCC; and
- Concluded by wishing the meeting all the success.

The **Hon. State Minister of Science and Telecommunications of Sudan, H.E. Alsadig FADLALLA,** in his opening speech:

- Welcomed all present to meeting and to Sudan in general;
- Expressed gratitude for the trust given to Sudan to host the 2nd APM for WRC-15 and to the ATU Secretary General for his continued efforts in promoting ICTs in Africa;
- Urged African countries to effectively coordinate and progress on the issues of broadband and other issues regarding the WRC-15 agenda items at the meeting;
- Stated that Africa must use its vast human resources to solve her problems;
- Thanked the NTC for organizing the meeting as well as the sponsors; and
- Wished the meeting all the success and declared the meeting open

3. APPOINTMENT OF THE BUREAU

The meeting appointed the following bureau:

- Chairman - Mr. Mustafa ABDELHAFIZ (Sudan)
- Vice Chairman - Engr. Festus Y.N. DAUDU (Nigeria)
- Rapporteurs:
    - Mr. Nizam GOOLAM (Lesotho)
    - Mr. Christian Tuyishime AHORANAYEZU (Rwanda)
    - Mr. Awallou MOUHAMADOU (Cameroon)

4. ADOPTION OF AGENDA AND WORK PROGRAMME

The adopted agenda and work programme of the meeting are annexed in **Annex 2 and 3**, respectively.

5. NOTABLES FROM THE 1ST AFRICAN PREPARATORY MEETING FOR WRC-15 (1ST APM for WRC-15) HELD IN DAKAR- SENEGAL IN MARCH 2013 AND THE RELEVANT DEVELOPMENTS SINCE THEN

The ATU Technical Coordinator, Mr Kezias MWALE, presented the General Secretariat's perspectives of the notables from the 1st APM for WRC-15 and the relevant developments since then, as found in presentation ***PPT1-ATU presentation*** and ***PPT2-ATU presentation***, in which he:

- Recalled the key lessons from WRC-12 noted at 1st APM for WRC-15;
- Further recalled the adoption of the ATU WRC-15 Work Plan and Strategy which he said needed to be reviewed;
- Informed the meeting of the successful conclusion of the GE06 Frequency Plan modifications and frequency coordination exercise adding that the result was a significant factor in the JTG4-5-6-7 settling for 694MHz as the lower edge;
- Further informed the meeting of the operationalization of the African Spectrum Working Group (AfriSWoG);

- Expressed satisfaction at the activeness of the Regional Economic Communities in preparing for WRC-15 having had held at least one regional meeting each;
- Outlined the strategy for participation in the work of the JTG-4-5-6-7 via AfriSWoG;
- Observed that AfriSWoG's could assist in implementation of WRC-12 outcomes for issues that require regional collaboration, such as modernization of maritime systems;
- Further observed that generally and judging from the first ITU Inter-regional workshop on WRC-15 preparations, the ATU region was observed to trail behind other regions in terms of progress in formulating common views/positions;
- Noted that the meeting provided a good bridge between WRC-12 and WRC-15, and
- Further noted that the meeting laid a solid foundation for WRC-15 preparations and hoped that the 2nd APM for WRC-15 was going to build on the success of the first meeting.

6. DEVELOPMENTS WITHIN ITU-R FOR WRC-15 PREPARATIONS

The ITU BR representative, Mr Ben BA, presented the BR's perspectives on the relevant developments for WRC-15 preparations as found in ***PPT3–ITU-BR presentation***, in which he:

- Described the WRC preparatory process in particular the forthcoming WRC-15;
- Provided the current status towards preparation of WRC-15 including work done in different ITU Study Groups especially JTG 4-5-6-7 on WRC-15 Agenda Items 1.1 and 1.2;
- Further provided the website links for various ITU-R resources such as first WRC-15 BR Worshop held in Geneva in December 2013, Study Group reports, and also the preparations by other Regional Telecommunications Organizations;
- Urged African administrations to take note of the ITU calendar and plan their national and regional preparatory events accordingly; and
- Further urged African administrations to actively participate and contribute towards the WRC-15 preparatory work within ITU-R at all levels as important decisions are made from these meetings/activities.

7. VIEWS/POSITIONS OF OTHER REGIONAL TELECOMMUNICATIONS ORGANIZATIONS

The meeting noted the overviews of the RCC, CEPT and ASMG preparatory work and their respective views/positions on WRC-15 agenda items, as follows:

7.1 Regional Commonwealth in the Field of Communications (RCC)

The RCC Representative, **Mr. Andrey MASTERUK**, provided an overview of the RCC's preparatory work for and views on WRC-15 agenda items as found in ***PPT4-RCC presentation***, in which he:

- Outlined the organizational and administrative arrangements of the RCC in particular the Working Group for RA and WRC preparations;
- Highlighted the three underlying principles of RCC in developing positions on WRCs

Agenda Items, namely; *equitable access to radiofrequency spectrum, compatibility between services*, and *providing regulatory and technical provision for development of new technologies*;

- Indicated that while RCC supports allocation of additional spectrum to Mobile Service, there is a need to optimize the use of frequency bands already identified for IMT;
- Pointed out that identification of IMT bands should not present additional constraints to the development of existing services;
- Presented a list of frequency bands which RCC would not support identification for IMT within such bands as they are intensely used and could result in possible unacceptable interference;
- Pointed out that in allocating 694 – 790 MHz to IMT, consideration should be made for protection of BS and ARNS;
- Explained that while RCC supports use of IMT family standards for PPDR networks in the bands earlier identified for PPDR, allocation of new frequency bands for MS to provide PPDR is not supported;
- Indicated that RCC does not support the principle of Agenda Item 1.4;
- Indicated that RCC does not object to allocations proposed in Agenda Item 1.9 subject to compatibility with existing terrestrial and space services and without imposing additional constraints on these services;
- Explained that RCC considers additional spectrum allocation to the MSS in the Earth-to-space and space-to-Earth directions, including the satellite component for broadband applications, including IMT, within the frequency range from 22 GHz to 26 GHz is possible only if the compatibility with existing terrestrial and space services is ensured in the same and adjacent frequency bands (taking into account RR Nos. 5.149 and 5.340 RR), and if such allocations to MSS do not impose additional constraints on the existing services;
- Indicated that RCC does not object to principle of Agenda Item 1.11 provided compatibility with existing services is ensured; and
- Referred all interested in the RCC activities to RCC's website www.en.rcc.org.ru

7.2 European Conference of Postal and Telecommunications Administrations (CEPT)

The CEPT Representative, **Mr. Antonio AZZARELLI**, provided an overview of the CEPT's preparatory work for and views on WRC-15 agenda items as found in ***PPT5-CEPT presentation***, in which he:

- Outlined the CPG composition including its project teams (PTA, PTB, PTC, PTD), meeting schedule and deliverables;
- Stated that on Agenda Item 1.1, CEPT supports harmonized allocations to the mobile service and identification for IMT to facilitate the global roaming and reduction of equipment-cost through economies of scale and provided lists of frequency bands that are suitable, under consideration and those considered not suitable for IMT;
- Stated that on Agenda Item 1.2, CEPT supports to set 694 MHz as the lower edge of the

mobile service allocation and to ensure that channel 48 of digital terrestrial television is protected;

- Pointed that Agenda Item 1.3 is considered to be an issue that needs to be considered at national level by each sovereign member state;
- Indicated that on Agenda Items 1.4, 1.5 and 1.9, CEPT currently supports further studies with a view of ensuring that existing services are protected;
- Further indicated that Agenda Item 1.10 poses sharing difficulties with MS and as such, additional allocation is not supported;
- Stated that CEPT has expressed support for Agenda Items 1.11 and 1.12 and explained that Agenda Item 1.13 is intended to enable communication between spacecrafts and would not pose any restrictions to existing services;
- Further stated that while CEPT recognizes the importance of on-board communications for safe ship operations, the issue could be addressed through efficient usage of existing frequencies and consideration should therefore be made for amendments to RR footnote No. 5.287 and Recommendation ITU-R M.1174-2;
- Pointed that CEPT has expressed support for Agenda Items 1.17 and 1.18, and presented CEPT positions on these and other agenda items;
- Stressed that CEPT does not support any modification to the definitions of fixed service, fixed station and mobile station;
- Referred the meeting participants to various resources from the CEPT websites as follows:
    - General information: http://www.cept.org/ecc
    - CPG page: http://www.cept.org/ecc/groups/ecc/cpg
    - Coordinators: http://www.cept.org/ecc/groups/ecc/cpg
    - CEPT Briefs/ECPs: http://www.cept.org/ecc/groups/ecc/cpg/page/cept-briefs-and-ecps-for-wrc-15

7.3 Arab Spectrum Management Group (ASMG)

The ASMG Representative, **Mr. Jalaleidin GISMELLAH**, provided an overview of the ASMG's preparatory work for and views on WRC-15 agenda items as found in ***PPT6- ASMG presentation***, in which he:

- Outlined the ASMG membership, its management team, working groups and objectives;
- Stated that ASMG meets at least once a year;
- Outlined the mechanism for preparing Arab common proposals (ACPs);
- Provided the ASMG positions as found in ***PPT6- ASMG presentation;***
- Highlighted that ASMG supports setting of the lower edge at 694MHz on AI 1.2;
- Stressed that ASMG does not support any modification to the definitions of fixed service, fixed station and mobile station.

8. CONSIDERATION OF THE REPORT OF AfriSWoG

8.1 Presentation of the report

The Chairman of AfriSWoG, Mr Andrew KISAKA (Tanzania), assisted by Mr. Silulami DOYI (South Africa), Mr. Nigel NAIDOO (South Africa) and Ms. Mutinta CHOLWE (Zambia) presented the report of AfriSWoG as found ***PPT7-AfriSWoG presentation,*** in which he:

- Outlined the background for AfriSWoG establishment, mandate, working methods including the management team;
- Further outlined the main outcomes of the 1st AfriSWoG meeting (AfriSWoG-1) which was held in Nairobi from 12 – 14 November 2013;
- Presented the following:
    1. Three (03) templates developed at AfriSWoG-1 (*Template for requesting a study by AfriSWoG, Template for input contribution for work of AfriSWoG* and *Template for Proposals for ATU WRC-15 Common Views and-or Positions*);
    2. AfriSWoG recommendations on WRC-15 Agenda Items 1.1 and 1.2 developed at AfriSWoG-1;
    3. The draft common input to JTG February 2014 meeting on the issue of OoBE under Agenda Item 1.2; and
    4. The proposed study on Digital Sound broadcasting and Optimization of the GE84 plan adopted at AfriSWoG-1.
- Stated that having had made significant progress on Agenda Item 1.2, focus will now be placed on other agenda items such as the review of UTC (Agenda Item 1.14);
- Expressed desire by AfriSWoG to assist in enhancing the preparations for WRCs and address continental spectrum management challenges in general;
- Suggested utilizing capacities of academia and other research institutions in undertaking various studies so adopted; and
- Kindly urged member states and all countries in general to support AfriSWoG to enable it deliver on its mandate.

8.2 Meeting observations and decisions on the report

The meeting observed and took the following decisions on the report:

- The meeting profoundly appreciated the work of AfriSWoG and observed that this was the first time Africa conducted studies in a collaborative manner;
- The Working Method was **adopted (*Annex 4 refers*)**;
- The study for Digital Sound Broadcasting and Optimization GE84 plan was **adopted (*Annex 5 refers*)**;
- The templates were **adopted** as follows**;**
    1. Annex 6 - Template for requesting a study by AfriSWoG
    2. Annex 7 - Template for input contribution for work of AfriSWoG
    3. Annex 8 - Template for Proposals for ATU WRC-15 Common Views/Positions

- The recommendations on Agenda Item 1.1 and 1.2 were **noted (*Annex 9 refers*)**;
- The draft input to JTG 4-5-6-7 was **adopted in principle (*Annex 10 refers*),** and **instructed** AfriSWoG to finalize the draft input as soon as possible;
- **Urged** all stakeholders to undertake all necessary actions to observe the deadline for submission to the JTG 4-5-6-7;
- **Requested** the ATU General Secretariat to circulate to member states for final endorsement as matter of urgency;

9. CONSIDERATION OF WRC-15 AGENDA ITEMS AND DEVELOPMENT OF AFRICAN PRELIMINARY COMMON VIEWS/POSITIONS

The meeting noted information from two presentations, the Boeing Company and Motorola as follows:

9.1 Boeing Company presentation on Agenda Item 1.17 (Wireless Avionics Intra-Communications (WAIC))

The Boeing representative, **Dr. Mohamed EL AMIN,** made a presentation as found in ***PPT8-Boeing presentation***, in which he stated that:

- WAIC communication is an application of a safety service as defined in RR 1.59 and thus falls under the Aeronautical Mobile (Route) Service (AM(R)S);
- ITU-R WP-5B has determined that the total spectrum requirement for WAIC is 145 MHz and the best suitable is the AM(R)S band 4 200 – 4 400 MHz band;
- Global harmonization and allocation of WAIC frequencies will ensure that WAIC is accepted by default globally via standardization by ICAO;
- Further sharing and compatibility studies on other frequency bands may be necessary;
- WAIC systems are safer in many ways because they reduce cabling and mechanical stress on the wires;
- WAIC technology will benefit the airlines and aerospace industry by reducing aircraft weight thus providing environmental benefits and cost savings to manufacturers and operators;
- WAIC is not meant to replace all the wires but to compliment and provide more reliable redundancy and monitoring capabilities,
- ITU, ICAO, CITEL, APT, CEPT, ATU, ASMG, RCC and aviation groups are all being involved and updated and that ICAO, RTCA and EUROCAE to address the safe incorporation of WAIC systems onto aircraft; and
- WAIC will enhance safety, and not compromise it.

9.2 Motorola Solutions presentation on Agenda Item 1.3 (Broadband Public Protection and Disaster Relief)

The Motorola Solutions representative, Mr. Daniel S. HAMADEH, made a presentation as found in ***PPT9 – Motorola presentation***, in which he urged the meeting and/or African administrations to:

- Develop a positive African position towards the revision of the Resolution 646 under Agenda Item 1.3 which is he said was under "method B" of the current draft CPM text;
- Participate and contribute in the upcoming WP5A meetings;
- Examine the benefits the frequency ranges 694-791/790-862 MHz present as regional/global band for harmonized LTE based PPDR;
- Establish national consensus on Broadband PPDR requirements and reserve a minimum of 2x10 MHz for future Broadband PPDR based on LTE/LTE-A from within the digital dividend spectrum;
- Consider that evolving Broadband PPDR networks cannot be fulfilled with existing spectrum in the range 380-470 MHz due to continued need for narrow band land mobile radio; and
- Realize the socio economic values and cost savings in allocating PPDR spectrum in digital dividend bands next to commercial LTE networks.

9.3 Consideration of WRC-15 agenda items and development of African preliminary common views/positions

The meeting considered all the WRC-15 agenda items based on the compilations of input contributions from sub-regions, administrations, associate members and relevant interested organizations. The result of this consideration was the African preliminary views as contained in the respective annexes as follows:

- Annex 11-1 - Chapter 1 (Mobile and Amateur Issues; 1.1, 1.2, 1.3, 1.4)
- Annex 11-2 - Chapter 2 (Science Issues; 1.11, 1.12, 1.13, 1.14)
- Annex 11-3 - Chapter 3 (Aeronautical, Maritime and Radiolocation issues; 1.5, 1.15, 1.16, 1.17, 1.18)
- Annex 11-4 - Chapter 4 (Satellite services; 1.6, 1.7, 1.8, 1.9.1,1.9.2, 1.10)
- Annex 11-5 - Chapter 5 (Satellite Regulatory issues; 7, 9.1.1, 9.1.2, 9.1.3, 9.1.5, 9.1.8, 9.3)
- Annex 11-6 - Chapter 6 (General issues; 2, 4, 9.1.4, 9.1.6, 9.1.7, 10)
- Annex 11-7 - Chapter X (Footnotes and Consequential Issues; 3, 5, 6, 8, 9.2)

The meeting established two adhoc groups;

1. Adhoc Group on Agenda Item 1.1 to draft text regarding African preliminary views on the bands 470 – 694, 3400-3600, 3600-3800 and 3800-4200MHz. This result of this group is the text on African preliminary view on agenda item 1.1 in Annex 11-1.

2. Adhoc Group on Agenda Item 1.2 to draft CPM text for input contribution to the forthcoming February 2014 JTG 4-5-6-7 meeting for endorsement consideration by administrations. Due to time constraint, the actual draft CPM text was not available. However, the group proposed a way forward as found in ***Annex 12.***

10. REVIEW OF ATU WORK PLAN AND STRATEGY FOR WRC-15

10.1 Consideration of the ATU Work Plan and Strategy for WRC-15

The ATU Technical Coordinator, **Mr. Kezias MWALE**, presented the proposed reviews to the ATU Work Plan and Strategy for WRC-15 as adopted at the 1st APM for WRC-15. The proposals related to the scheduling of the 3rd APM for WRC-15 from the initial January 2015 to **November/December 2014**. Also, the shifting of dates related to items 2 and 3 regarding **Conference Outcome Implementation Strategies** from 30thJune 2013 and 30th July 2013, to **30th June** 2014 and **30th July 2014**, respectively.

10.2 Meeting decision on the proposed reviews of the strategy

The meeting adopted the proposals and thereby established the **January 2014 Revision** of the ATU Work Plan and Strategy for WRC-15 adopted at 1stAPM for WRC-15 ***(Annex 13).***

11. OTHER BUSINESS

11.1 HIPSSA/HCM4A Project Update

Kemilinks representative, **Mr. Hilaire MBEGA**, presented on the update of HIPSSA/HCM4A Project as found ***PPT10-Kemilinks presentation,*** in which he:

- Stated ITU /BDT has sent circular letter DM 336 to all African Sub Saharian countries to re-launch the project.
- Indicated that any administration wishing to be part of the agreement need to complete and sign the "Declaration of Intent form" and send it back before 31 of January 2014 to be included in the HCM4A Agreement;
- Advised that more information can be found at "http://www.itu.int/en/ITU-D/Projects/ITU-EC-ACP/HIPSSA/Pages/Projet_HIPSSA_français.aspx " or contact Mr. IstvánBOZSÓKI Spectrum Management andBroadcasting Division (SBD) ITU/BDT/IEE / +41 22 730 6347 / istvan.bozsoki@itu.int

11.2 Announcement of the Candidature of Mr. Shola TAYLOR for the position of Deputy Director General of ITU by the Member State of Nigeria

Nigeria informed the meeting of the candidature of **Mr. Shola TAYLOR** for the position of ITU Deputy Secretary General at the forthcoming ITU PP 2014 and requested support of his candidature through a statement as found in ***Annex 14***. Further, the meeting was informed that the ECOWAS Council of Ministers on ICTs endorsed his candidature. The meeting welcomed this candidature and encouraged the meeting delegates to inform their various Administrations for support consideration of his candidature.

11.3 Announcement of the Candidature of Mr. Ibrahim SANOU for the renew of his position as Director – BDT of ITU by the Member State of Burkina Faso

Burina Faso informed the meeting of the candidature of **Mr. Brahima SANOU** for renewal of his current position at ITU (ITU Director of the Telecommunications Development Sector) at the forthcoming ITU PP 2014 and requested support of his candidature through a statement as found in ***Annex 15.*** The meeting welcomed this candidature and encouraged the meeting delegates to inform their various Administrations for support consideration of his candidature.

11.4 Upcoming ATU Activities and Events

The ATU General Secretariat brought to the attention of the meeting,the ATU upcoming events and requested active participation. Specifically, the following events were cited:

- 2nd African preparatory meeting for WTDC-14 and ITU PP-14 from **17 to 21 February, 2014** in Lusaka Zambia
- 15th ATU Administrative Council meeting in Cameroon from **22 to 24 April, 2014**
- 3rd Digital Migration and Spectrum Policy Summit, in Nairobi, Kenya from **27 to 29 May, 2014**
- ATU Conference of Plenipotentiaries preceded by Special Session of the Admin Council and Committee of Experts to be held in Zimbabwe from **3 to 11 July, 2014**
- 3rd African preparatory meeting for WRC-15 in Abuja, Nigeria tentatively from **24 to 28 November, 2014**

12. CAPACITY BUILDING ON SPECTRUM AND NEW TECHNOLOGIES - MOBILE AND SATELLITE ISSUES

In line with the agenda and work programme, the meeting took a recess during the morning of 30th January 2014 as the report was being finalized by the meeting bureau. During this period, capacity building on spectrum and new technologies - Mobile and Satellite Issues was conducted by industry experts from GSMA, Ericsson, Motorola Solutions, ITSO, GVF, Intelsat, Avanti, RASCOM and Sudasat. The main points from this activity and associated presentations will be posted on a separate information note on ATU website.

13. DATE AND VENUE OF THE NEXT MEETING

The 3rdAfrican preparatory meeting for WRC-15 (3rdAPM4WRC-15) will be held in **Abuja – Nigeria** from **24** to **28 November 2014** following the acceptance by the meeting of the kind invitation by the Member State of Nigeria.

14. ADOPTION OF REPORT

This report was adopted at about 17:00 Hours on Thursday 30th January 2014 as a true record of the proceedings of the meeting subject to editorial improvements.

15. VOTE OF THANKS

The delegate from Botswana, **Mrs Basebi MOSINYI**, gave the vote of thanks on behalf of the meeting participants in which she:

- Highly appreciated the support and excellent facilities that were availed to the meeting by the organizers, the NTC, under the blessing of the Ministry of Science and Telecommunications of Sudan and the Sudanese government in general;
- Thanked ATU and ITU for organizing the meeting saying it was both timely and very important in the African preparatory work for WRC-15;
- Reiterated that the meeting was success and attributed the success to the full participation of both the resource persons and participants alike;
- Expressed gratitude to all the resource persons for their insightful presentations and interventions; and
- Ended by saying restated gratitude to the President of Sudan, **H.E. Field Marshal Omar Hassan Ahmad Al-Bashir,** the Government and people of Sudan for the wonderful hospitality.

16. CLOSING REMARKS

The meeting Chairman, **Mr. Mustafa ABDELHAFIZ,** in his closing remarks:

- Expressed hope that the meeting bureau managed to deliver its mandate of effectively and efficiently managing the meeting and that all the interests were equally taken into account in a fair manner; and
- Further expressed hope that the ITU posts candidatures; Mr Taylor and Mr Sanou will succeed in their elections.

The ATU Secretary General, **Mr. Abdoulkarim SOUMAILA,** in his closing remarks:

- Hoped that everyone had a nice stay and good experience in Sudan;
- Stated that ATU General Secretariat wants to take events to anyone willing to host them;
- Reminded the meeting that solidarity and the spirit of Africa is key to our success;
- Urged countries to ensure that they attend the ITU PP 14 to support candidates from Africa for the respective ITU posts they are contesting;
- Expressed profound gratitude to the ITU-BR, partners, regional telecomm organizations;
- Further expressed deep gratitude to the meeting organizers and interpreters;
- Thanked the Chairman of the meeting for managing the meeting so well; and
- Wished everyone safe trip back to their respective destinations.

The Director General of the National Telecommunications Corporation of Sudan, **Dr. Izzeldin KAMIL AMIN**, in his closing remarks:

- Acknowledged the extensive work carried out over the four days of the meeting;
- Hoped that the region has enhanced the knowledge of the issues at hand at WRC-15;
- Further expressed hope that all representatives of supporting organizations had enjoyed the meeting and acknowledged their presence and technical assistance;
- Quoted a Sudanese proverb in Arabic which he said translated '*Souls which know each other will come and be together, however, souls which do not know each other will repel and never be together'*;
- Regional organizations such as ATU has the potential of uniting and bringing people of Africa closer together because Africa-to-Africa tourism has failed;
- Hoped that ATU SG will increase the events in various places in Africa in order to facilitate the interaction of Africans among Africans;
- Thanked all involved; organizers, the ATU staff, the NTC staff for their hard work;
- Invited people to consider visiting Sudan particularly in winter when the environment is most pleasant i.e. the months of November to February;
- Wished everyone safe trip home and declared the meeting closed

Appendix 1: List of Annexes

Annex 1 - List of Participants

Annex 2 - Agenda for 2nd APM for WRC-15, 27 - 30 January 2014, Khartoum, Sudan

Annex 3 - Work Programme 2nd APM for WRC-15, 27 - 30 January 2014 Khartoum Sudan

Annex 4 - AfriSWoG Working Methods

Annex 5 - Topic for study - Digital Sound Broadcasting and Optimization of FM broadcasting plan

Annex 6 - Template for requesting a study by AfriSWoG

Annex 7 - Template for input contribution for work of AfriSWoG

Annex 8 - Template for Proposals for ATU WRC-15 Common Views and-or Positions

Annex 9 - AfriSWoG Recommendations on the key issues under WRC-15 AI 1.1 and 1.2

Annex 10 - Working Document on the Input Contribution to the JTG 4-5-6-7 on the OoBE Studies

Annex 11-1 - Chapter 1 - Mobile and Amatuer Issues; 1.1, 1.2, 1.3, 1.4

Annex 11-2 - Chapter 2 - Science Issues; 1.11, 1.12, 1.13, 1.14

Annex 11-3 - Chapter 3 - Aeronautical, Maritime & Radiolocation; 1.5, 1.15, 1.16, 1.17, 1.18

Annex 11-4 - Chapter 4 - Satellite services; 1.6, 1.7, 1.8, 1.9.1,1.9.2, 1.10

Annex 11-5 - Chapter 5 - Satellite Regulatory issues; 7, 9.1.1, 9.1.2, 9.1.3, 9.1.5, 9.1.8, 9.3

Annex 11-6 - Chapter 6 - General issues; 2, 4, 9.1.4, 9.1.6, 9.1.7, 10

Annex 11-7 - Chapter X - Footnotes and Consequential Issues; 3, 5, 6, 8, 9.2

Annex 12 - Report from Ad-Hoc Group on Agenda Item 1.2

Annex 13 - ATU WRC-15 Work Plan and WRC-12 Outcome Implementation Strategy

Annex 14 - Statement by Nigeria on the Candidacy of Mr. Shola TAYLOR for Deputy Secretary General

Annex 15 - Statement by Burkina Faso on the Candidacy of Mr. Brahima SANOU for Director – BDT sector of ITU

Appendix 2: List of referenced presentations

PPT 1- 2ndAPTMforWRC-15 - ATU presentation 1

PPT 2- 2ndAPTMforWRC-15 - ATU presentation 2

PPT 3 - 2ndAPMforWRC-15 - ITU BR presentation

PPT 4 - 2ndAPMforWRC-15 - RCC presentation

PPT 5 - 2ndAPMforWRC-15 - CEPT presentation

PPT 6 - 2ndAPMforWRC-15 - ASMG presentation

PPT 7 - 2ndAPMforWRC-15 - AfriSWoG presentation

PPT 8 - 2ndAPMforWRC-15 - Boeing

PPT 9 - 2ndAPMforWRC-15 - Motorola

PPT 10 - 2ndAPMforWRC-15 - Kemilinks presentation

Appendix 3: List of Input Documents

Input DOC 1 - 2ndAPMforWRC-15 – EACO input contribution

Input DOC 2 - 2ndAPMforWRC-15 – ECCAS input contribution

Input DOC 3 - 2ndAPMforWRC-15 - SADC input contribution

Input DOC 4 - 2ndAPMforWRC-15 - Nigeria input contribution

Input DOC 5 - 2ndAPMforWRC-15 - Sudan input contribution

Input DOC 6 - 2ndAPMforWRC-15 - Guinea (Conakry) input contribution

Input DOC 7 - 2ndAPMforWRC-15 - Guinea (Conakry) input contribution

Input DOC 8 - 2ndAPMforWRC-15 - Algeria input contribution

Input DOC 9 - 2ndAPMforWRC-15 - Boeing (english) input contribution

Input DOC 9b - 2ndAPMforWRC-15 - Boeing (french) input contribution

Input DOC 10 - 2ndAPMforWRC-15 - ITSO input contribution

Input DOC 11 - 2ndAPMforWRC-15 - GSMA input contribution

Input DOC 12 - 2ndAPMforWRC-15 - Qualcomm input contribution

Input DOC 12a - 2ndAPMforWRC-15 - Qualcomm - Annex 1

Input DOC 12b - 2ndAPMforWRC-15 - Qualcomm - Annex 2

Input DOC 12c - 2ndAPMforWRC-15 - Qualcomm - Annex 3

Input DOC 13 - 2ndAPMforWRC-15 - GSMA input contribution

Input DOC 14 - 2ndAPMforWRC-15 - RASCOM input contribution

Appendix 4: List of Information Documents

Info DOC 1 - 2ndAPMforWRC-15 – RCC

Info DOC 2 - 2ndAPMforWRC-15 - Motorola - Annex 1

Info DOC 2 - 2ndAPMforWRC-15 - Motorola - Annex 2

Info DOC 2 - 2ndAPMforWRC-15 - Motorola - Annex 3

Info DOC 2 - 2ndAPMforWRC-15 - Motorola - Annex 4

Info PPT - 2ndAPMforWRC-15 - Agenda Item 1.4 Rapportuer

Appendix 5: List of Working Documents from 1st APM for WRC-15

Working DOC 1 - 1stAPMforWRC-15 - Compilation of (Preliminary) Views-Positions at the Dakar meeting